PTO/SB/08 (09-06)
Approved for use through 03/31/2007. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Date Submitted: November 20, 2006

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	10/751,943
Filing Date	1/7/2004
First Named Inventor	Lars Ivar SAMUELSON
Art Unit	2891
Examiner Name	Matthew W. SUCH
Attorney Docket Number	077424-0105

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
MWS		2004/0075464 A1	04-22-2004	Lars Ivar SAMUELSON et al.	

UNPUBLISHED U.S. PATENT APPLICATION DOCUMENTS

Examiner Initials*	Cite No.[1]	U.S. Patent Application Document Serial Number-Kind Code[2] (*if known*)	Filing Date of Cited Document MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documents	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T[6]

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.[1]	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[6]

Examiner Signature	/Matthew Such/	Date Considered	02/05/2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
MWS	AA	2002/0172820	11/21/02	Majumdar et al.	428	357	
MWS	AB	2002/0129761	9/19/02	Takami	117	73	
MWS	AC	5,362,972	11/8/94	Yazawa et al	257	13	
MWS	AD	5,332,910	7/26/94	Haraguchi et al.	257	13	

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
MWS	AE	WO 01/84238	11/8/01	WIPO			

OTHER (including author, title, date, pertinent pages, etc.)

MWS	AF	Yasawa, M. et al, "Heteroepitaxial Ultrafine Wire-Like Growth of InAs on GaAs Substrates", Appl. Phys. Lett., Vol. 58, No. 10, March 11, 1991, pp. 1080-1082.
MWS	AG	Haraguchi, K. et al., "GaAs p-n junction formed in quantum wire crystals", Applied Physics Letters, Vol. 60, No. 6, February 10, 1992, pp. 745-747
MWS	AH	Yazawa, M., et al., "Effect of one monolayer of surface gold atoms on the epitaxial growth of InAs nanowhiskers", Applied Physics Letters, Vol. 61, October 26, 1992, pp. 2051-2053.
MWS	AI	Yazawa, M., "Nanocolumns composed of GaAs-InAs jointed whiskers and SiO2 covers", Applied Physics Letters, Vol. 65, August 29, 1994, pp. 1157-1158
MWS	AJ	Sato, T., "Site-controlled growth of nanowhiskers", Applied Physics Letters, Vol. 66, January 9, 1995, pp. 159-161.
MWS	AK	Hiruma, K., et al., "Growth and optical properties of nanometer-scale GaAs and InAs whiskers", Applied Physics Review, Vol. 77, January 15, 1995, pp. 447-462.
MWS	AL	Hiruma K., et al., "Growth and Characterization of Nanometer-Scale GaAs, AiGaAs and GaAs/InAs Wires", IEICE Trans. Electron., Vol. E77-C, No. 9, September 1, 1994, pp. 1420-1425.
MWS	AM	Hiruma, K. et al., "GaAs free-standing quantum-size wires", Journal of Applied Physics, Vol. 74, September 1, 1993, pp. 3162-3171.
MWS	AN	Haraguchi, K., et al., "Polarization dependence of light emitted from GaAs p-n junctions in quantum wire crystals", Journal of Applied Physics, Vol. 75, April 15, 1994, pp. 4220-4225.
MWS	AO	Hiruma, K., et al., "Self-organized growth of GaAs/InAs heterostructure nanocylinders by organometallic vapor phase epitaxy, Journal of Crystal Growth, Vol. 163, January 1, 1996, pp. 226-231.
MWS	AP	Lieber, C., "Nanowires as Building Blocks for Nanoscale Science and Technology", Abstracts of Papers of the Amer. Chem Soc., Vol. 224, August 18, 2002, pp. 033-Comp Part 1.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
MWS	BA	6,190,634	2/20/01	Lieber et al.	423	439	
MWS	BB	6,159,742	12/12/00	Lieber et al.	436	164	
MWS	BC	5,997,832	12/7/99	Lieber et al.	423	249	
MWS	BD	5,840,435	11/24/98	Lieber et al.	428	689	
MWS	BE	5,252,835	10/12/93	Lieber et al.	250	492.1	

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
MWS	BF	WO 02/080280	10/10/02	WIPO			

OTHER (including author, title, date, pertinent pages, etc.)

MWS	BG	Duan, X., et al., "Laser-Assisted Catalytic Growth of Single-Crystal Compound Semiconductor Nanowires", Abstracts of Papers of the Amer. Chem., Soc., Vol. 219, March 26, 2000, pp. 676-Inor Part 1.
MWS	BH	Duan, X. et al., "Laser Assisted Catalytic Growth of Semiconductor Nanowires for Nanoscale Electronic Optoelectronic Device Application", Abstracts of Papers of the Amer. Chem. Soc., Vol. 221, April 1, 2001, pp. 644-Inor Part 1.
MWS	BI	Lieber, C., "Semiconductor Nanowires: Building Blocks for Nanoscale Science and Technology", Abstracts of Papers of the Amer. Chem. Soc., Vol. 222, August 1, 2001, pp. 383-Phys Part 2.
MWS	BJ	Huang, Y., et al., "Integrated Optoelectronics Assembled from Semiconductor Nanowires", Abstracts of Papers of the Amer. Chem. Soc., Vol. 224, August 18, 2002, pp. 093-Phys - Part 2.
MWS	BK	Hu, J. et al., "Chemistry and Physics in One Dimension: Synthesis and Properties of Nanowires and Nanotubes", Acc. Chem. Res., Vol. 32, No. 5, February 20, 1999, p. 435-445.
MWS	BL	Duan, X. et al., "General Synthesis of Compound Semiconductor Nanowires", Advanced Materials, Vol. 12, No. 4, January 1, 2000, pp. 298-302.
MWS	BM	Duan, X., et al., "Synthesis and optical properties of gallium arsenide nanowires", Applied Physics Letters, Vol. 76, No. 9, February 28, 2000, pp. 1116-1118.
MWS	BN	Cui, Y., et al., "Diameter-controlled synthesis of single-crystal silicon nanowires", Applied Physics Letters, Vol. 78, No. 15, April 9, 2001, pp. 2214-2216.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

02/05/2007

/Matthew Such/

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
MWS	CA	6,307,241	10/23/01	Awschalom et al.	257	421	
MWS	CB	5,196,396	3/23/93	Lieber	505	1	
MWS	CC	6,716,409	4/6/04	Hafner et al.	423	447	

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
MWS	CD	WO 03/005450	1/16/03	WIPO			

OTHER (including author, title, date, pertinent pages, etc.)

MWS	CE	Gudiksen M.S., et al., "Diameter-selective synthesis of semiconductor nanowires", J. Am. Chem. Soc., Vol. 122, August 22, 2000, pp. 8801-8802.
MWS	CF	Gudiksen M., et al., "Size-Dependent Photoluminescence from Single Indium Phosphide Nanowires", Journal of Physical Chemistry B, Vol. 106, No. 16, March 30, 2002, pp. 4036-4039.
MWS	CG	Duan, X., et al., "Laser-Assisted Catalytic Growth of Single Crystal GaN Nanowires", Journal of Amer. Chem. Soc., Vol. 122, NO. 1, December 18, 1999, pp. 188-189.
MWS	CH	Huang, Y., et al., "Gallium Nitride Nanowire Nanodevices", Nano Letters, Vol. 2, No. 2, January 11, 2002, pp. 81-82.
MWS	CI	Lieber C., "Nanowire Superlattices", Nano Letters, Vol. 2, No. 2, January 25, 2002, pp. 82-82.
MWS	CJ	Duan, X., et al., "Nonvolatile Memory and Programmable Logic from Molecule-Gated Nanowires", Nano Letters, Vol. 2, No. 5, May 1, 2002, pp. 487-490.
MWS	CK	Cui, Y., et al., "High Performance Silicon Nanowire Field Effect Transistors", Nano Letters, Vol. 3, No. 2, January 1, 2003, pp. 149-152.
MWS	CL	Zhong, Z., et al., "Synthesis of P-Type Gallium Nitride Nanowires for Electronic and Photonic Nanodevices", Nano Letters, Vol. 3, No. 3, February 20, 2003, pp. 343-346.
MWS	CM	Hu, J., et al., "Controlled Growth and Electrical Properties of Heterojunctions of Carbon Nanotubes and Silicon Nanowires", Nature, Vol. 399, May 6, 1999, pp. 48-51.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
MWS	DA	6,743,408	6/1/04	Lieber et al.	423	447.1	

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
MWS	DB	WO 01/03208	1/11/01	WIPO			

OTHER (including author, title, date, pertinent pages, etc.)

MWS	DC	Duan, X., et al., "Indium phosphide nanowires as building blocks for nanoscale electronic and optoelectronic devices", Nature, Vol. 409, January 4, 2001, pp. 66-69.
MWS	DD	Gudiksen M., et al., "Growth of nanowire superlattice structures for nanoscale photonics and electronics", Nature, Vol. 415, February 7, 2002, pp. 617-620.
MWS	DE	Lauhon, L., et al., "Epitaxial Core-Shell and Core-Multishell Nanowire Heterostructures", Nature, Vol. 420, No. 6911, November 7, 2002, pp. 57-61.
MWS	DF	Duan, X., "Single-nanowire electrically driven lasers", Nature, Vol. 421, January 16, 2003, pp. 241-244.
MWS	DG	Lieber, C., "The incredible shrinking circuit", Sci. Am., Vol. 285, September 1, 2001, pp. 58-64.
MWS	DH	Morales, A., et al., "A Laser Ablation Method for the Synthesis of Crystalline Semiconductor Nanowires", Science, Vol. 279, January 9, 1998, pp. 208-211.
MWS	DJ	Cui Y., et al., "Functional Nanoscale Electronic Devices Assembled Using Silicon Nanowire Building Blocks", Science, Vol. 291, February 2, 2001, pp. 851-853.
MWS	DK	Wang, J., et al., "Highly Polarized Photoluminesence and Photodetection from Single Indium Phosphide Nanowires", Science, Vol. 293, No. 5534, August 24, 2001, pp. 1455-1457.
MWS	DL	Cui Y., et al., "Nanowire nanosensors for highly sensitive and selective detection of biological and chemical species", Science, Vol. 293, August 17, 2001, pp. 1289-1292.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

02/05/2007

/Matthew Such/

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
MWS	EA	6,340,822	1/22/02	Brown et al.	257	25	

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
MWS	EB	WO 97/31139	8/28/97	WIPO			

OTHER (including author, title, date, pertinent pages, etc.)

MWS	EC	Huang, Y., et al., "Logic Gates and Computation from Assembled Nanowire Building Blocks", Science, Vol. 294, November 9, 2001, pp. 1313-1317.
MWS	ED	Cui, Y., et al., "Doping and Electrical Transport in Silicon Nanowires", The Journal of Physical Chemistry B, Vol. 104, No. 22, May 11, 2000, pp. 5213-5216.
MWS	EE	Gudiksen M., et al., "Synthetic Control of the Diameter and Length of Single Crystal Semiconductor Nanowires", The Journal of Physical Chemistry B, Vol. 105, April 18, 2001, pp. 4062-4064.
MWS	EF	Morales, A. et al., "Rational Synthesis of Silicon Nanowires", INQR, 651, January 1, 2001.
MWS	EG	Wong E., et al., "Nanobeam Mechanics: Elasticity, Strength, and Toughness of Nanorods and Nanotubes", Science, Vol. 277, September 26, 1997, pp. 1971-1975.
MWS	EH	Dai, H., et al., "Synthesis and Characterization of Carbide Nanorods", Nature, Vol. 375, June 29, 1995, pp. 769-772.
MWS	EI	Junno, T., et al., "Controlled manipulation of nanoparticles with an atomic force microscope", Applied Physics Letters, Vol. 66, June 26, 1995, pp. 3627-3629.
MWS	EJ	Zwiller, V., et al., "Single quantum dots emit single photons at a time: Antibunching experiment", Applied Physics Letters, Vol. 78, No. 17, April 23, 2001, pp. 2476-2478.
	EK	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

02/05/2007

/Matthew Such/

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	FA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
MWS	FB	WO 95/02709	1/26/95	WIPO			

OTHER (including author, title, date, pertinent pages, etc.)

MWS	FC	Borgstrom, M., et al., "High peak-to-valley ratios observed in InAs/InP resonant tunneling quantum dot stacks", Applied Physics Letters, Vol. 78, No. 21, May 21, 2001, pp. 3232-3234.
MWS	FD	Thelander, et al., "Gold nanoparticle single-electron transistor with carbon nanotube leads", Applied Physics Letters, Vol. 79, No. 13, September 24, 2001, pp. 2106-2108.
MWS	FE	Ohlsson B.J, et al., "Size-, shape-, and position-controlled GaAs nano-whiskers", Applied Physics Letters, Vol. 79, No. 20, November 12, 2001, pp. 3335-3337.
MWS	FF	Bjork, M.T., et al., "One-dimensional heterostructures in semiconductor nanowhiskers", Applied Physics Letters, Vol. 80, No. 6, February 11, 2002, pp. 1058-1060.
MWS	FG	Persson, M.P. et al., "Electronic Structure of Nanometer-Scale GaAs Whiskers", Applied Physics Letters, Vol. 81, No. 7, August 12, 2002, pp. 1309-1311.
MWS	FH	Thelander, C., et al., "Single-Electron Transistors in Heterostructure Nanowires", Applied Physics Letters, Vol. 83, No. 10, September 8, 2003, pp. 2052-2054.
MWS	FI	Panev, N., et al., "Sharp Exciton Emission From Single InAs Quantum Dots in GaAs Nanowires", Applied Physics Letters, Vol. 83, No. 11, September 15, 2003, pp. 2238-2240.
MWS	FJ	Bjork, M.T., "Nanowire resonant tunelling diodes", Applied Physics Letters, Vol. 81, No. 23, December 2, 2002, pp. 4458-4460.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	GA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
MWS	GB	WO 02/01648	1/3/02	WIPO			

OTHER (including author, title, date, pertinent pages, etc.)

MWS	GC	Persson, A., "Oriented Growth of InAs-based Nanowhiskers", Diploma Work, Lund Institute of Technology, Lund University, May 29, 2001, pp. 1-48.
MWS	GD	Ohlsson, J., "Semiconductor Hetero- and Nanostructures", Doctoral Thesis, Lund Institute of Technology, Lund University, November 23, 2001.
MWS	GE	Thelander, C., "Quantum Devices from the Assembly of Zero-and One-Dimensional Building Blocks", Doctoral Thesis, Lund University, November 7, 2003.
MWS	GF	Ohlsson, B., et al., "Anisotropic GaAs island phase grown on flat GaP: A stranski-Krastanow-formed corrugated surface", Journal of Applied Physics, Vol. 89, No. 10, May 15, 2001, pp. 5726-5730.
MWS	GG	Magnusson, M., et al.,"Gold nanoparticles: Production, reshaping, and thermal charging", Journal of Nanoparticle Research, Vol. 1, January 1, 1999, pp. 243-251.
MWS	GH	Samuelson, L., "Self-Forming Nanoscale Devices", Materials Today, October 22, 2003, pp. 22-31.
MWS	GI	Ohlsson, B., et al., "Fabrication and characterization of III-V nanowhiskers", MSS10 Conference - Austria, July 23-27, 2001.
MWS	GJ	Bjork, M.T., et al., "One-dimensional Steeplechase for Electrons Realized", Nano Letters, Vol. 2, No. 2, January 19, 2002, pp. 87-89.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	HA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
MWS	HB	WO 01/77726	10/18/01	WIPO			

OTHER (including author, title, date, pertinent pages, etc.)

MWS	HC	Martensson, T., et al., "Fabrication of Individually Seeded Nanowire Arrays by Vapour-Liquid-Solid Growth", Nanotechnology, No. 14, October 17, 2003, pp. 1255-1258.
MWS	HD	Burgess, D.S., "Nanowire Heterostructures Form Tunneling Diodes", Photonics Spectra, Vol. 37, No. 2, February 2003, pp. 3-5.
MWS	HE	Pettersson, H., et al., "Electrical and Optical Properties of Self-Assembled InAs Quantum Dots in InP Studied by Space-Charge Spectroscopy and Photoluminescence", Phys. Rev. B, Vol. 61, No. 7, February 15, 2000, pp. 4795-4800.
MWS	HF	Ohlsson, B.J., et al., "Growth and characterization of GaAs and InAs nano-whiskers and InAs/GaAs heterostructures", Physica E, No. 13, March 1, 2002, pp. 1126-1130.
MWS	HG	Samuelson, L., et al., "Tunnel-Induced Photon Emission in Semiconductors Using an STM, Physica Scripta, Vol. T42, January 1, 1992, pp. 149-152.
MWS	HH	Seifert, W. et al, "In-Situ Growth of Quantum Dot Structures by the Stranski-Krastanow Growth Mode", Prog. Crys. Growth Charact., Vol. 33, January 1, 1996, pp. 423-471.
MWS	HI	Persson, M., "Tight-Binding Simulation of Nanocrystalline Particles and Whiskers", Tekn lic thesis, Lund University, August 1, 2002.
MWS	HJ	Bjork, M., "Semiconductor Nanowires and Devices", Tekn lic thesis, Lund University, November 1, 2002.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

02/05/2007

/Matthew Such/

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	IA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	IB						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	IC	Murphy, C.J., et al., "Controlling the Aspect Ratio of Inorganic Nanorods and Nanowires", Advanced Materials, Vol. 14, No. 1, January 4, 2002, pp. 80-82.
MWS	ID	Wagner, R.S., et al., "Vapour-Liquid-Solid Mechanism of Single Crystal Growth", Appl. Phys. Lett., Vol. 4, No. 5, March 1, 1964, pp. 89-90.
MWS	IE	Canham, L.T., "Silicon Quantum Wire Array Fabrication by Electrochemical and Chemical Dissolution of Wafers", Appl. Phys. Lett., Vol. 57, September 3, 1990, pp. 1046-1048.
MWS	IF	Koga, T., et al., "Carrier Pocket Engineering Applied to Strained .....", Appl. Phys. Lett., Vol. 75, October 18, 1999, pp. 2438-2440.
MWS	IG	Koga, T., et al., "Experimental Proof-of-Principle Investigation of Enhanced $Z_{3d}T$ in (001) Oriented Si/Ge Superlattices", Appl. Phys. Lett., Vol. 77, No. 10, September 4, 2000, pp. 1490-1492.
MWS	IH	Narihiro, M., et al., "Resonant tunneling of electrons via 20 nm scale InAs quantum dot and magnetotunneling spectroscopy of its electronic states", Applied Physics Letters, Vol. 70, No. 1, January 6, 1997, pp. 105-107.
MWS	II	Pan, Z., et al., "Conduction band offset and electron effective mass in GaInNAs/GaAs quantum-well structures with low nitrogen concentration", Applied Physics Letters, Vol. 78, No. 15, April 9, 2001, pp. 2217-2219.
MWS	IJ	Ferry, D.K., et al., "Transport in Nanostructures", Cambridge University Press, Hardcover, January 1, 1997, pp. 41-45.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	JA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	JB						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	JC	Ferry, D.K., et al., "Transport in Nanostructures", Cambridge University Press, Hardcover, January 1, 1997, pp. 91-96.
MWS	JD	Givargizov, E., "Growth of Whiskers by the Vapor-Liquid-Solid Mechanism", Current Topics in Material Science, edited by E. Kaldis, Chapter 3, Vol. 1, January 1, 1978, pp. 79-145.
MWS	JE	Mullins, J., "News analysis: using unusable frequencies", IEEE Spectrum, Vol. 39, No. 7, July 1, 2002, pp. 22-23.
MWS	JF	Randall, J.N., et al., "Quantum Dot Devices", in Norman G. Einspruch and William R. Frensley, eds., Heterostructures and Quantum Devices (San Diego, CA: Academic Pres, Inc., 1994) Copyright 1994, p. 420.
MWS	JG	Markowitz, P.D., et al., "Phase Separation in $Al_xGa_{1-x}As$ Nanowhiskers Grown by the Solution-Liquid-Solid Mechanism", J. Am. Chem. Soc., Vol. 123, April 18, 2001, pp. 4502-4511.
MWS	JH	Hickmott, T.W., et al., "Negative Charge, Barrier Heights, and the Conduction-Ban Discontinuity in $Al_xGa_{1-x}As$ Capacitors", J. Appl. Phys., Vol. 57, April 15, 1985, pp. 2844-2853.
MWS	JI	Mathews, J., et al., "Defects in Epitaxial Multilayers", J. Cryst. Growth, Vol. 27, January 1, 1974, pp. 118-125.
MWS	JJ	Kovtyukhova, N., et al., "Layer-by-Layer Assembly Rectifying Junctions in and on Metal Nanowires", J. Phys. Chem. B., Vol. 105, August 14, 2001, pp. 8762-8769.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

02/05/2007

/Matthew Such/

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	KA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	KB						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	KC	Sakaki, H., "Scattering Suppression and High-Mobility Effect of Size-Quantized Electrons in Ultrafine Semiconductor Wire Structures", Japanese Journal of Applied Physics, Vol. 19, No. 12, December 1, 1980, pp. L735-L738.
MWS	KD	Scheibel, H. et al., "Generation of Monodisperse Ag- and NaCl Aerosols With Particle Diameters Between 2 and 300 nm", Journal of Aerosol Science, Vol. 14, No. 2, January 1, 1983, pp. 113-126.
MWS	KE	Knutson, E. et al., "Aerosol Classification by Electric Mobility: Apparatus, Theory, and Applications", Journal of Aerosol Science, Vol. 6, January 1, 1975, pp. 443-451.
MWS	KF	Miller, M. et al., "Serpentine Superlattice: Concept and First Results", Journal of Crystal Growth, Vol. 111, January 1, 1991, pp. 323-327.
MWS	KG	Bhat, R., et al., "Patterned Quantum Well Heterostructures Grown by OMCVD on Non-Planar Substrates: Applications to Extremely Narrow SQW Lasers", Journal of Crystal Growth, Vol. 93, January 1, 1988, pp. 850-856.
MWS	KH	Hara, S., et al, "Formation and Photoluminescence Characterization of Quantum Well Wires Using Multiatomic Steps Grown by Metalorganic Vapor Phase Epitaxy", Journal of Crystal Growth, Vol. 145, January 1, 1994, pp. 692-697.
MWS	KI	Givargizov, E.I., "Fundamental Aspects of VLS Growth", Journal of Crystal Growth, Vol. 31, January 1, 1975, pp. 20-30.
MWS	KJ	Derycke, V., et al., "Carbon Nanotube Inter- and Intramolecular Logic Gates", Nano Letters, Vol. 1, No. 9, August 26, 2001, pp. 453-456.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	LA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	LB						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	LC	Iijima, S., "Helical microtubules of graphitic carbon", Nature, Vol. 354, November 7, 1991, pp. 56-58.
MWS	LD	Yao, Z., et al., "Carbon Nanotube Intramolecular Junctions", Nature, Vol. 402, November 18, 1999, pp. 273-276.
MWS	LE	Bennett, C., et al., "Quantum information and computation", Nature, Vol. 404, March 16, 2000, pp. 247-255.
MWS	LF	Michler, P. et al., "Quantum correlation among photons from a single quantum dot at room temperature", Nature, Vol. 406, No. 6799, August 31, 2000, pp. 968-970.
MWS	LG	Chow, E., et al., "Three-dimensional control of light in a two-dimensional photonic crystal slab", Nature, Vol. 407, October 26, 2000, pp. 983-986.
MWS	LH	Venkatasubramanian, R., et al., "Thin-Film Thermoelectric Devices with High Room-Temperature Figures of Merit", Nature, Vol. 413, October 11, 2003, pp. 597-602.
MWS	LI	Bachtold, A., et al., "Scanned probe microscopy of electronic transport in carbon nanotubes", Phys. Rev. Lett., Vol. 84, No. 26, June 26, 2000, pp. 6082-6085.
MWS	LJ	Hicks, L.D. et al., "Thermoelectric Figure of Merit of a One-Dimensional Conductor", Phys. Rev. B, Vol. 47, No. 24, June 15, 1993, pp. 16631-16634.

EXAMINER Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

02/05/2007

/Matthew Such/

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	MA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	MB						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	MC	Itskevich, I.E., et al., "Resonant magnetotunneling through individual self-assembled InAs quantum dots", Physical Review B, Vol. 54, No. 23, December 15, 1996, pp. 16401-16404.
MWS	MD	Reed, M.A., et al., "Observation of Discrete Electronic States in a Zero-Dimensional Semiconductor Nanostructure", Physical Review Letters, Vol. 60, No. 6, February 8, 1988, pp. 535-537.
MWS	ME	Kapon, E., et al., "Stimulated Emission in Semiconductor Quantum Wire Heterostructures", Physical Review Letters, Vol. 63, No. 4, July 24, 1989, pp. 430-433.
MWS	MF	Santori, C., et al., "Triggered Single Photons from a Quantum Dot", Physical Review Letters, Vol. 86, No. 8, February 19, 2001, pp. 1502-1505.
MWS	MG	Capasso, F., et al., "Quantum Cascade Lasers", Physics Today, May 1, 2002, pp. 34-40.
MWS	MH	Likharev, K.K., "Single-Electron Devices and their Applications", Proceedings of the IEEE, Vol. 87, No. 4, April 1, 1999, pp. 606-632.
MWS	MI	Han, W., et al., "Synthesis of Gallium Nitride Nanorods Through a Carbon Nanotube-Confined Reaction", Science, Vol. 277, August 29, 1997, pp. 1287-1289.
MWS	MJ	Zhang, Y., et al., "Heterostructures of Single-Walled Carbon Nanotubes and Carbide Nanorods", Science, Vol. 285, September 10, 1999, pp. 1719-1722.
	MK	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	NA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	NB						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	NC	Holmes, J., et al., "Control of Thickness and Orientation of Solution-Grown Silicon Nanowires", Science, Vol. 287, February 25, 2000, pp. 1471-1473.
MWS	ND	Zhou, C.W., et al., "Modulated chemical doping of individual carbon nanotubes", Science, Vol. 290, November 24, 2000, pp. 1552-1555.
MWS	NE	Favier, F., et al., "Hydrogen Sensors and Switches from Electrodeposited Palladium Mesowire Arrays", Science, Vol. 293, September 21, 2001, pp. 2227-2231.
MWS	NF	Bachtold, A., et al., "Logic circuits with carbon nanotube transistors", Science, Vol. 294, November 9, 2001, pp. 1317-1320.
MWS	NG	Nicewarner-Pena, S.R., et al., "Submicrometer metallic barcodes", Science, Vol. 294, October 5, 2001, pp. 137-141.
MWS	NH	Service, R.F., "Nanowire Fabricators Earn Their Stripes", Science, Vol. 295, No. 5557, January 1, 2002, pp. 946-947.
MWS	NI	Awschalom, D.D. et al., "Spintronics", Scientific American, Vol. 286, No. 6, June 1, 2002, pp. 66-73.
MWS	NJ	Henning, P., et al., "Compositional information from amorphous Si-Ge multilayers using high-resolution electron microscopy imaging and direct digital recording", Ultramicroscopy, Vol. 66, January 1, 1996, pp. 221-235.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	OA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	OB						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	OC	Wagner, R.S., "VLS Mechanism of Crystal Growth", Whisker Technology, A.P. Levitt, ed., Chapter 3, January 1, 1970, pp. 47-119.
MWS	OD	Alferov, Z., et al., "For developing semiconductor heterostructures used in high-speed-and opto-electronics", www.nobel.se.physics/laureates/2000/, November 23, 2000.
MWS	OE	von Klitzing, K., "for the discovery of the quantized Hall effect", www.nobel.se/physics/laureates/1985/, June 16, 2000.
MWS	OF	Laughlin, R.B., et al., "For their discovery of a new form of quantum fluid with frictionally charged excitations", www.nobel.se/physics/laureates/1998/, June 16, 2000.
MWS	OG	Oda, Y., et al., "Natural Formation of Square Scale Structures on Patterned Vicinal Substrates by MOVPE: Application to the Fabrication of Quantum Structures", Phys. Conf. Ser., No. 166, Chapter 4, August 22-26, 1999, pp. 191-194.
MWS	OH	Hayakawa, K., et al., "AlGaAs Nano-Meter Scale Network Structures Fabricated by Selective Area MOVPE", Phys. Conf. Ser., No. 162, Chapter 8, October 12-16, 1998.
MWS	OI	Akabori, M. et al., "Selective Area MOVPE Growth of Two-Dimensional Photonic Crystals Having an Air-Hole Array and its Application to Air-Bridge-Type Structures", Physica E, No. 13, January 1, 2002, pp. 446-450.
MWS	OJ	Melechko, A.V., et al., "Large-Scale Synthesis of Arrays of High-Aspect-Ratio Rigid Vertically Aligned Carbon Nanofibres", Nanotechnology, No. 14, August 19, 2003, pp. 1029-1035.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	PA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	PB						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	PC	Kempa, K., et al., "Photonic Crystals Based on Periodic Arrays of Aligned Carbon Nanotubes", Nano Letters, Vol. 3, No. 1, November 19, 2002, pp. 13-18.
MWS	PD	Takahashi, H., et al., "Formation and Characteristics of 100 nm Scale GaAs Quantum Wires by Selective Area MOVPE", Applied Surface Science, No. 216, January 1, 2003, pp. 402-406.
MWS	PE	Akabori, M., et al., "InGaAs Nano-Pillar Array Formation on Partially Masked InP(111)B by Selective Area Metal-Organic Vapour Phase Epitaxial Growth for Two-Dimensional Photonic Crystal Application", Nanotechnology, No. 14, August 27, 2003, pp. 1071-1074.
MWS	PF	Kamins, T.I., et al., "Self-Assembled Silicon Nanowires for Integrating Microsystems, Nanoelectronics and Microelectronics", mstnews, 3/03, March 1, 2003.
MWS	PG	Wu, Y., et al., "Rational Synthesis of Inorganic Nanowires", Abstracts of Papers in the Amer. Chem. Soc., Vol. 221, April 1, 2001, pp. 108-lec Part 1.
MWS	PH	Yang, P., et al., "Nanowires from Vapor Condensation and their Assemblies", Abstracts of Papers in the Amer. Chem. Soc., Vol. 219, March 26, 2000, pp. 269-Inor Part 1.
MWS	PI	Huang, M., et al., "Nanowire Array as Potential 2-d Photonic Bandgap Materials", Abstracts of Papers in the Amer. Chem. Soc., Vol. 221, April 1, 2001, pp. 95-Phys Part 2.
MWS	PJ	Yang, P., et al., "Inorganic Nanowires: Rational Synthesis, Functional Assemblies and Novel Properties", Abstracts of Papers in the Amer. Chem. Soc., Vol. 223, April 7, 2002, pp. 343-Inor Part 2.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	QA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	QB						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	QC	Gates, B., et al., "Synthesis and Characterization of Crystalline Ag2Se Nanowires through a Template-Engaged Reaction at Room Temperature", Advanced Fun. Materials, Vol. 12, No. 10, October 1, 2002, pp. 679-686.
MWS	QD	Yang, P., et al., "Controlled Growth of ZnO Nanowires and their Optical Properties", Advanced Functional Materials, Vol. 12, No. 5, May 2002, pp. 323-331.
MWS	QE	Wu, Y., et al., "Superconducting MgB2 Nanowires", Advanced Materials, Vol. 13, No. 19, October 2, 2001, pp. 1487-1489.
MWS	QF	Huang, M., et al., "Catalytic Growth of Zinc Oxide Nanowires by Vapor Transport", Advanced Materials, Vol. 13, No. 2, January 16, 2001, pp. 113-116.
MWS	QG	Wu, Y., et al., "Melting and Welding Semiconductor Nanowires in Nanotubes", Advanced Materials, Vol. 13, no. 7, April 4, 2001, pp. 520-523.
MWS	QH	Zheng, B., et al., "Synthesis of Ultra-Long and Highly Oriented Silicon Oxide Nanowires from Liquid Alloys", Advanced Materials, Vol. 14, No. 2, January 16, 2002, pp. 122-124.
MWS	QI	Kind, H., et al., "Nanowire Ultraviolet Photodetectors and Optical Switches", Advanced Materials, Vol. 14, No. 2, January 16, 2002, pp. 158-160.
MWS	QJ	Xia, Y., et al., "Chemistry and Physics of Nanowires", Advanced Materials, Vol. 15, No. 5, March 4, 2003, pp. 351-352.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	RA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	RB						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	RC	Xia, Y., et al., "One-Dimensional Nanostructures: Synthesis, Characterization, and Applications", Advanced Materials, Vol. 15, No. 5, March 4, 2003, pp. 353-389.
MWS	RD	Yan, H., et al., "Morphogensis of One-Dimensional ZnO Nano- and Microcrystals", Advanced Materials, Vol. 15, No. 5, March 4, 2003, pp 402-405.
MWS	RE	Wu, Y., et al., "Germanium/Carbon Core-Sheath Nanostructures", Applied Physics Letters, Vol. 77, No. 1, July 3, 2000, pp. 43-45.
MWS	RF	Wu, Y., et al., "Inorganic Semiconductor Nanowires: Rational Growth, Assembly, and Novel Properties", Chemistry-A European Journal, Vol. 8, No. 6, March 15, 2002, pp. 1261-1268.
MWS	RG	Yang, P., et al., "Langmuir-Blodgett Assembly of One-Dimensional Nanostructures", Chemphyschem, Vol. 3, No. 6, June 17, 2002, pp. 503-506.
MWS	RH	Wu, Y., et al., "Direct Observation of Vapor-Liquid-Solid Nanowire Growth", J. Am. Chem. Soc., Vol. 123, March 13, 2001, p. 3165-3166.
MWS	RI	Yan, H., et al., "Dendritic Nanowire Ultraviolet Laser Array", J. Am. Chem. Soc., Vol. 125, No. 16, March 29, 2003, pp. 4728-4729.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

02/05/2007

/Matthew Such/

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	SA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	SB						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	SC	Johnson, J., et al., "Single Nanowire Lasers", Journal of Physical Chemistry B, Vol. 105, No. 46, October 23, 2001, pp. 11387-11390.
MWS	SD	Messer, B., et al., "Microchannel Networks for Nanowire Patterning", Journal of the Amer. Chem. Soc., Vol. 122, No. 41, September 29, 2000, pp. 10232-10233.
MWS	SE	Song, J., et al., "MMo_3Se_3 (M=Li+,Na+,Rb+,Cs+, NMe4+) Nanowire Formation via Cation Exchange in Organic Solution", Journal of the Amer. Chem. Soc., Vol. 123, No. 39, March 10, 2001, pp. 9714-9715.
MWS	SF	Li, Y., et al, "Bismuth Nanotubes: A Rational Low-Temperature Synthetic Route", Journal of the Amer. Chem. Soc., Vol. 123, No. 40, September 14, 2001, pp. 9904-9905.
MWS	SG	Song, J., et al., "Metal Nanowire Formation Using Mo_3Se_3-as Reducing and Sacrificing Templates", Journal of the Amer. Chem. Soc., Vol. 123, no. 42, September 26, 2001, pp. 10397-10398.
MWS	SH	Gates, B., et al., "Single-Crystalline Nanowires of Ag2Se Can Be Synthesized by Templating Against Nanowires of Trigonal Se", Journal of the Amer. Chem. Soc., Vol. 123, No. 46, October 25, 2001, pp. 11500-11501.
MWS	SI	Wu, Y., et al., "Block-by-Block Growth of Single-Crystalline Si/SiGe Superlattice Nanowires", Nano Letters, Vol. 2, No. 2, January 19, 2002, pp. 83-86.
MWS	SJ	Johnson, J., et al., "Near-Field Imaging of Nonlinear Optical Mixing in Single Zinc Oxide Nanowires", Nano Letters, Vol. 2, No. 4, April 1, 2002, pp. 279-283.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

02/05/2007

/Matthew Such/

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	TA						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	TB						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	TC	Johnson, J., et al., "Single Gallium Nitride Nanowire Lasers", Nature Materials, Vol. 1, No. 2, September 15, 2002, pp. 106-110.
MWS	TD	Huang, M.H., et al., "Room-Temperature Ultraviolet Nanowire Nanolasers", Science, Vol. 292, June 8, 2001, pp. 1897-1899.
MWS	TE	Wu, Y., et al., "Germanium Nanowire Growth via Sample Vapor Transport", Chem. Mater, Vol. 12, March 20, 2000, pp. 605-607.
MWS	TF	Wu, Y., et al., "Semiconductor Nanowire Array: Potential Substrates for Photocatalysis and Photovoltaics", Topics in Catalysis, Vol. 19, No. 2, April 1, 2002, pp. 197-202.
MWS	TG	Hiruma, K. et al., "GaAs free-standing quantum-size wires", Journal of Applied Physics, Vol. 74, September 1, 1993, pp. 3162-3171.
MWS	TH	Liu J. L. et al., "Gas-source MBE growth of freestanding Si nano-wires on Au/S1 substrate", Superlattices Microstructures, 1999, Vol. 25, No. 1-2, pp. 477-479.
MWS	TI	Shimada et al., "Size, position and direction control on GaAs and InAs nanowhisker growth", Superlattices and Microstructures, Vol. 24, No. 6, December 1998, pp. 453-458
MWS	TJ	Shirai M., et al., "Gold cluster formation using an atomic force microscope and its applications to GaAs whisker growth", Superlattices and Microstructures, Vol. 24, No. 2, August 1998, pp. 157-162.
MWS	TK	Hiruma, K. et al., "GaAs and InAs Nanowire Growth Technology", Proceedings of the Science and Technology of Atomically Engineered Materials, October 30, 1995, pp. 563-570
MWS	TL	Westwater, J. et al., "Control of the size and position of silicon nanowires grown via the vapor-liquid-solid technique", Japanese Journal of Applied Physics, Part 1, October 1997, Vol. 36, pp. 6204-6209

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

02/05/2007

/Matthew Such/

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
MWS	UA	2003/0200521	10/23/03	DeHon et al.	716	16	
MWS	UB	5,544,617	8/13/96	Terui et al.	117	87	
MWS	UC	5,858,862	1/12/99	Westwater et al.	438	503	
MWS	UD	5,976,957	11/2/99	Westwater et al.	438	478	
MWS	UE	6,130,142	10/10/00	Westwater et al.	438	478	
MWS	UF	6,130,143	10/10/00	Westwater et al.	438	478	
MWS	UG	2003/0121764	7/3/03	Yang et al.	200	262	
MWS	UH	2002/0129761	9/19/02	Takami	117	73	
MWS	UI	2002/0172820	11/21/02	Majumdar et al.	428	357	

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
MWS	UJ	1 342 075	9/10/03	Europe			yes
MWS	UK	1 314 189	5/28/03	Europe			yes
MWS	UL	03/053851	7/3/03	WIPO			
MWS	UM	2004/038767	5/6/04	WIPO			
MWS	UM	2004/010552	1/29/04	WIPO			
MWS	UN	03/063208	7/31/03	WIPO			
MWS	UO	0 443 920	8/28/91	Europe			abstract
MWS	UP	2000-068493	3/3/00	Japan			abstract
MWS	UQ	0 838 865	4/29/98	Europe			

OTHER (including author, title, date, pertinent pages, etc.)

	UR	O'Regan et al., "A Low-Cost, High-Efficiency Solar Cell Based on Dye-Sensitized Colloidal TiO_2 Films", Nature, Vol. 353, October 24, 1991, pp. 737-740.
MWS	US	Jun et al., "Architectural Control of Magnetic Semiconductor Nanocrystals", J. Am. Checm Soc., Vol. 124, No. 4, January 4, 2002, pp. 615-619.
MWS	UT	Manna et al., "Synthesis of Soluble and Processable Rod-, Arrow-, Teardrop-, and Tetrapod-Shaped CdSe Nanocrystals", J. Am. Chec. Soc., Vol. 122, No. 51, December 1, 2000, pp. 12700-12706.
MWS	UU	Huang et al., "Directed Assembly of one-dimensional nanostructures into functional networks", Science, Vol. 291, January 26, 2001, pp. 630-633.

EXAMINER: Initial if reference considered; whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
MWS	VA	5,899,734	5/4/99	Lee	438	584	
MWS	VB	2002/0175408	11/28/02	Majumdar et al.	257	734	
MWS	VC	6,559,468	5/6/03	Kuekes et al.	257	14	
MWS	VD	2002/0130311	9/19/02	Lieber et al.	257	1	
MWS	VE	2003/0089899	5/15/03	Lieber et al.	257	9	
MWS	VF	2004/0213307	10/28/04	Leiber et al.	372	39	
	VG						
	VH						
	VI						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	VI						
	VJ						
	VK						
	VL						
	VM						
	VN						
	VO						
	VP						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	VQ	Persson, "Heterointerfaces in III-V semiconductor nanowhiskers", IEEE, 2002, pp. 281-293.
MWS	VR	Gao et al., "Self-Assembled Nanowire-Nanoribbon Junction Arrays of ZnO", The Journal of Physical Chemistry, Vol. 106, No. 49, November 12, 2002, pp. 12653-12658.
MWS	VS	Yan et al., "Dendritic Nanowire Ultraviolet Laser Array", J. Am. Chem. Soc., Vol. 125, March 29, 2003, pp. 4728-4729.
MWS	VT	Jun et al., "Controlled Synthesis of Multi-Armed CdS Nanorod Architectures Using Monosurfactant System", J. Am. Chem. Soc., Vol. 123, May 5, 2001, pp. 5150-5151.
MWS	VU	Poole et al., "Spatially Controlled, Nanoparticle-Free Growth of InP Nanowires", Applied Physics Letters, Vol. 83, No. 10, September 8, 2002, pp. 2055-2057.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	WA						
	WB						
	WC						
	WD						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	WE						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	WF	Hiruma et al., "Quantum Size Microcrystals Grown Using Organametallic Vapor Phase Epitaxy", Appl. Phys. Lett., Vol. 59, No. 4, July 22, 1991, pp. 431-433.
MWS	WG	Xia et al., "One-Dimensional Nanostructures: Synthesis, Characterization, and Applications", Adv. Mater., Vol. 15, No. 5, March 4, 2003, pp. 353-389.
MWS	WH	Ozaki et al., "Silicon Nanowhiskers Grown on a Hydrogen-Terminated Silicon {111} Surface", Applied Physics Letters, Vol. 73, No. 25, December 21, 1998, pp. 3700-3702.
MWS	WI	Wu et al., "Growth, Branching, and Kinking of Molecular-Beam Epitaxial <110> GaAs Nanowires", Applied Physics Letters, Vol. 83, No. 16, October 20, 2003, pp. 3368-3370.
MWS	WJ	Grätzel, "Photoelectrochemical Cells", Nature, Vol. 414, November 15, 2001, pp. 338-344.
MWS	WK	Wang et al., "Nanocrystals Branch Out", Nature Materials, Vol. 2, June 2003, pp. 355-356.
MWS	WL	Manna et al., "Controlled Growth of Tetrapod-Branched Inorganic Nanocrystals", Nature Materials, Vol. 2, June 2003, pp. 382-385.
	WM	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	XA						
	XB						
	XC						
	XD						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	XE						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	XF	Oda et al., "Natural Formation of Square Scale Structures on Patterned Vicinal Substrates by MOVPE: Application to the Fabrication of Quantum Stuctures", Inst. Phys. Conf. Ser., No. 166, Chapter 4, August 22, 1999, pp. 191-194.
MWS	XG	Hayakawa et al., "AlGaAs Nano-Meter Scale Network Structures Fabricated by Selective Area MOVPE", Inst. Phys. Conf. Ser., No. 162, Chapter 8, October 12, 1998, pp. 415-419.
MWS	XH	Akabori et al., "Selective Area MOVPE Growth of Two-Dimensional Photonic Crystals Having an Air-Hole Array and its Application to Air-Bridge-Type Structures", Physica E, No. 13, 2002, pp. 446-450.
MWS	XI	Melechko et al., "Large-Scale Synthesis of Arrays of High-Aspect-Ratio Ridig Vertically Aligned Carbon Nanofibres", Nanotechnology, No. 14, August 19, 2003, pp. 1029-1035.
MWS	XJ	Kempa et al., "Photonic Crystals Based on Periodic Arrays of Aligned Cabon Nanotubes", Nano Letters, Vol. 3, No. 1, November 19, 2002, pp. 13-18.
MWS	XK	Akabori et al., "InGaAs Nano-Pillar Array Formation on Partially Masked InP(111)B by Selective Area Metal-Organic Vapour Phase Epitaxial Growth for Two-Dimensional Photonic Crystal Application", Nanotechnology, No. 14, August 27, 2003, pp. 1071-1074.
MWS	XL	Zhong et al., "Nanowire Crossbar Arrays as Address Decoders for Integrated Nanosystems" Science, Vol. 302, November 21, 2003, pp. 1377-1379.
MWS	XM	McAlpine et al., "High-Performance Nanowire Electronics and Photonics on Glass and Plastic Substrates", Nano Letters, Vol. 3, No. 11, October 14, 2003, pp. 1531-1535.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	YA						
	YB						
	YC						
	YD						
	YE						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	YF						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	YG	Whang et al., "Large-Scale Hierarchical Organization of Nanowire Arrays for Integrated Nanosystems", Nano Letters, Vol. 3, No. 9, August 5, 2003, pp. 1255-1259.
MWS	YH	McAlpine et al., "Nanoimprint Lithography for Hybrid Plastic Electronics", Nano Letters, Vol. 3, No. 4, March 7, 2003, pp. 443-445.
MWS	YI	Bozovic et al., "Plastic Deformation in Mechanically Strained Single-Walled Carbon Nanotubes", Physical Review B, Vol. 67, January 22, 2003, pp. 033407-1 - 033407-4.
MWS	YJ	Hahm et al., "Direct Ultrasensitive Electrical Detection of DNA and DNA Sequence Variations Using Nanowire Nanosensors", Nano Letters, Vol. 4, No. 1, December 9, 2003, pp. 51-54.
MWS	YK	Lieber, "Nanoscale Science and Technolgoy: Building a Big Future from Small Things", MRS Bulletin, July 2003, pp. 486-491.
MWS	YL	Yu et al., "Silicon Nanowires: Preparation, Device Fabrication, and Transport Properties", J. Phys. Chem. B., Vol. 104, No. 50, November 23, 2000, pp. 11864-11870.
MWS	YM	Law et al., "Photochemical Sensing of NO_2 with SnO_2 Nanoribbon Nanosensors at Room Temperature", Angew. Chem. Int. Ed., Vol. 41, No. 13, 2002, pp. 2405-2408.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	ZA						
	ZB						
	ZC						
	ZD						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	ZE						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	ZF	Lao et al., "Hierarchical ZnO Nanostructures", Nano Letters, Vol. 2, September 13, 2002, pp 1287-1291.
MWS	ZG	Barrelet et al., "Synthesis of CdS and ZnS Nanowires Using Single-Source Molecular Precursors", J. Am. Chem. Soc., Vol. 125, 2003, pp. 11498-11499.
	ZH	
MWS	ZI	Hornstra, "Dislocations in the Diamond Lattice", J. Phys. Checm. Solids, Vol. 5, 1958, pp. 129-141.
MWS	ZJ	Krost et al., "InP on Si(111): Accommodation of Lattice Mismatch and Structural Properties", Appl. Phys. Lett., Vol. 64, No. 7, February 7, 1994, pp. 769-771.
MWS	ZK	Gorbach et al., "Growth of III-V Semiconductor Layers on Si Patterned Substrates", Thin Solid Films, Vol. 336, 1998, pp. 63-68.
MWS	ZL	Ohlsson et al., "Anti-Domain-Free GaP, Grown in Atomically Flat (001) Si Sub-μm-sized Openings", Applied Physics Letters, Vol. 80, No. 24, June 17, 2002, pp. 4546-4548.
MWS	ZM	Kawanami, "Heteroepitaxial Technologies of III-V on Si", Solar Energy Materials & Solar Cells, Vol. 66, 2001, pp. 479-486.
MWS	ZN	Westwater et al., "Growth of Silicon Nanowires Via Gold/Silane Vapor-Liquid-Solid Reaction", J. Vac. Sci. Technol. B., Vol. 15, No. 3, 1997, pp. 554-557.
MWS	ZO	Kamins et al., "Ti-Catalyzed Si Nanowires by Chemical Vapor Deposition: Microscopy and Growth Mechanisms", Journal of Applied Physics, Vol. 89, No. 2, January 15, 2001, pp. 1008-1016.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	AAA						
	AAB						
	AAC						
	AAD						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	AAE						

OTHER (including author, title, date, pertinent pages, etc.)

	AAF	
MWS	AAG	Thornton et al., "A Photoemission Study of Passivated Silicon Surfaces Produced by Etching in Solutions of HF", Semicond. Sci. Technol., Vol. 4, 1989, pp. 847-851.
MWS	AAH	Borgstrom et al., "Size- and Shape-Controlled GaAs Nano-Whiskers Grown by MOVPE: A Growth Study", Journal of Crystal Growth, Vol. 260, 2004, pp. 18-22.
MWS	AAI	Westwater et al., "Si Nanowires Grown Via the Vapour-Liquid-Solid Reaction", Phys. Stat. Sol., Vol. (a)165, 1998, pp. 37-42.
MWS	AAJ	Westwater et al., "The Characteristics and Oxidation of Vapor-Liquid-Solid Grown Si Nanowires", Mat. Res. Soc. Symp. Proc., Vol. 452, 1997, pp. 237-242.
MWS	AAK	Westwater et al., "Nanoscale Silicon Whiskers Formed by Silane/Gold Reaction at 335°C", Materials Letters, Vol. 24, June 1995, pp. 109-112.
MWS	AAL	Yang, "Semiconductor Nanowire Array", Proceedings of the SPIE, Vol. 4806, 2002, pp. 222-224.
MWS	AAM	Abramson et al., "Nanowire Composite Thermoelectric Devices", Proceedings of IMECE2002, ASME International Mechanical Engineering Congress & Exposition, November 17-22, 2002, pp. 7-11.
MWS	AAN	Johnson et al., "Single Nanowire Waveguides and Lasers", Proceedings of SPIE, Vol. 5223, 2003, pp. 187-196.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	BBA						
	BBB						
	BBC						
	BBD						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	BBE						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	BBF	Greene et al., "Low-Temperature Wafer-Scale Production of ZnO Nanowire Arrays", Angew. Chem. Int. Ed., Vol. 42, 2003, pp. 3031-3034.
MWS	BBG	Kim et al., "Nanowire Arrays for Thermoelectric Devices", Proceedings of HT2003, ASME Summer Heat Transfer Conference, July 21-23, 2003, pp. 101-104.
MWS	BBH	Choi et al., "Self-Organized GaN Quantum Wire UV Lasers", J. Phys. Chem. B., Vol. 107, 2003, pp. 8721-8725.
MWS	BBI	Yang, "From Nanowire Lasers to Quantum Wire Lasers", Proceedings of SPIE, Vol. 5349, 2004, pp. 18-23.
MWS	BBJ	Samuelson et al., "Semiconductor Nanowires for Novel One-Dimensional Devices", Physica E, Vol. 21, 2004, pp. 560-567.
MWS	BBK	Shorubalko et al., "Tunable Nonlinear Current-Voltage Characteristics of Three-Terminal Ballistic Nanojunctions", Applied Physics Letters, Vol. 83, No. 12, September 22, 2003, pp. 2369-2371.
MWS	BBL	Samuelson et al., "Fabrication and Spectroscopic Studies of InP/GaInAs/InP and GaAs/GaInAs/GaAs Quantum-Well Wire Stuctures", Inst. Phys. Confer. Ser. No. 127, Chapter 3, January 1, 1992, pp. 95-98.
MWS	BBM	Samuelson et al., "Fabrication and Imaging of Quantum Well Wire Structures", SPIE, Vol. 1676, 1992, pp. 154-160.
MWS	BBN	Larsson et al., "Probing of Individual Semiconductor Nanowhiskers by TEM-STM", Microscopy and Microanalysis, Vol. 10, 2004, pp. 41-46.
MWS	BBO	Ramvall et al., "Quantized Conductance in a Heterostructurally Defined $Ga_{0.3}In_{0.7}As/InP$, Appl. Phys. Lett., Vol. 71, August 18, 1997, pp. 918-920.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	CCA						
	CCB						
	CCC						
	CCD						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	CCE						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	CCF	Ng et al., "Growth of Epitaxial Nanowires at the Junctions of Nanowalls", Science, Vol. 300, May 23, 2003, p. 12.
MWS	CCG	Ng et al., "Epitaxial Single Crystalline Inorganic Nanowires and Nanowalls: Growth Morphogenesis and Applications in Nano-Optoelectronics", Proceedings of SPIE, Vol. 5349, 2004, pp. 11-17.
MWS	CCH	Thelander et al., "One Dimensional Heterostructures and Resonant Tunneling in III-V Nanowires", IEEE International Symposium on Compound Semiconductors, August 25, 2003, pp. 151-152.
MWS	CCI	Björk et al., "Heterostructures in One-Dimensional Nanowires", Proceedings of 7th International Conference of Nanometer-Scale Science and Technology and 21st European Conference on Surface Science, June 24, 2002.
MWS	CCJ	Ohlsson et al., "Comparison Between (111)B and (100)III-V Nanowhiskers", Proceedings of 7th International Conference of Nanometer-Scale Science and Technology and 21st European Conference on Surface Science, June 24, 2002.
MWS	CCK	Larsson et al, "In-Situ Manipulations and Electrical Measurements of III-V Nanowhiskers with TEM-STM, Proceedings of 7th International Conference of Nanometer-Scale Science and Technology and 21st European Conference on Surface Science, June 24, 2002.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT LIST OF DOCUMENTS CITED BY APPLICANT	Atty. Docket No. A-9903	Appln. No. 10/751,943
	Applicant Lars Ivar SAMUELSON et al.	
	Filing Date January 7, 2004	Group 2811

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-class	Filing Date
	DDA						
	DDB						
	DDC						
	DDD						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Sub-class	Translation
	DDE						

OTHER (including author, title, date, pertinent pages, etc.)

MWS	DDF	**Lieber et al., "Nanowires as Building Blocks for Nanoelectronics and Nanophotonics", Electron Devices Meeting 2003 IEEE International, 2003, pp. 12.3.1-12.3.3.**
	DDG	
	DDH	
	DDI	
	DDJ	
	DDK	
	DDL	
	DDM	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

/Matthew Such/ 02/05/2007